CALIFORNIA DEPARTMENT OF FORESTRY & FIRE PROTECTION OFFICE OF THE STATE FIRE MARSHAL

FIRE ENGINEERING - BUILDING MATERIALS LISTING PROGRAM

LISTING SERVICE

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CATEGORY: Leakage Dampers (Smoke)

LISTEE: C & S Air Products, 2824 N. Sylvania Ave., Fort Worth, TX 76111

Contact: Michael Beaver (817) 831-7038

DESIGN: Model FSD-181, FSD-182, SD-181 and SD-182 single and multi blade type leakage

rated dampers. Unit is constructed of No. 20 Gage galvanized steel frame, No. 24 gage galvanized steel blades. Refer to listee's data sheet for detailed product description and operational considerations. Sizes of dampers are as follow:

<u>Model</u>	<u>Construction</u>	Width, Inch		Height, Inch	
		Min.	Max.	Min.	Max.
FSD	Single section Multiple section	8 8	30 90	8 8	50 100
SD	Single section only	8	36	8	50

RATING: SD-181, FSD-181: Class I-250, Class I-350

SD-182, FSD-182: Class II-250, Class II-350

INSTALLATION: In accordance with listee's printed installation instructions, applicable codes &

ordinances and in a manner acceptable to the authority having jurisdiction.

MARKING: Listee's name, model number, classification and UL label.

APPROVAL: Listed as Class I or II leakage-rated dampers. *Intended for use with approved

damper operators. For vertical installation installations only.

NOTE: For fire rated classification, refer to CSFM Listing Cat. 3225.

XLF: 3230-0368:116

*Rev. 11-06-2001



This listing is based upon technical data submitted by the applicant. CSFM Fire Engineering staff has reviewed the test results and/or other data but does not make an independent verification of any claims. This listing is not an endorsement or recommendation of the item listed. This listing should not be used to verify correct operational requirements or installation criteria. Refer to listee's data sheet, installation instructions and/or other suitable information sources.

Date Issued: JUNE 22, 2004 Listing Expires June 30, 2005

Authorized By: DIANE K. AREND, Senior Deputy

Program Manager